

KRAUS, J., inz., C.Sc.

Modernization of our railroad tracks; discussion. Zel dop tech 10
no.10:310 '62.

KRAUS, Josef, inz. CSc.; KUBICEK, Bohumil, inz.

Using complex mechanized work trains for the repair of railroad tunnels. Inz stavby 12 no. 3: Supplement:Mechanizace no. 3:35-39 '64.

1. Research Institute of Transportation, Prague (for Kraus).
2. Zeleznicni stavitelstvi, Prague (for Kubicek).

KRAUS, Josef, inz. CSc.; MARES, Jaroslav, inz.

A new method of laying foundations of railroad beds. Zel dop tech
J2 no. 10:261-264 '64.

KRAUS, Josef, ing.

Railroad technology in the world. Rev cailor far 13 no.1:39-46
Ja '65.

KRAUS, Josef, inz.; KUBICEK, Bohumil, inz.

Economic aspect of the new methods of railroad bedding
consolidation. Doprava 6 no.6:415-418 '64.

MARES, Jaroslav, ina.; KRAUS, Josef, ina. b)

Separate concreting of bored piles. Inv. Stavby 13 no. 2/55-
59 F '65.

1. Stavby silnic a zeleznic National Enterprise, Prague (for
Mares). 2. Research Institute of Transportation, Prague (for
Kraus).

KRAUS, J.

Research in drainage and consolidation of soils under railroad tracks by means of
electroosmosis. p. 74.

ZELEZNICNI DOPRAVA A TECHNIKA. (Ministerstvo dopravy)
Praha, Czechoslovakia
Vol. 7, no. 3, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11.
Nov. 1959
Uncl.

KRAUS, J., inz., C.Sc.; KUBICEK, B., inz.

Mechanized deep jointing of stone masonry. Inz stavby 9 no.9:
334-337 S '61.

1. Vyzkymny ustav dopravní, Praha (for Kraus) 2. Zeleznicni
stavitelstvi, Praha (for Kubicek).

KPAUS, Josef, inz., C. Sc.; NEDFLA, Vlad., inz.

Increasing the bearing capacity of railway tracks by earth stabilization.
Zel dcp tech 10 no. 1:12-14 '62.

KRAUS, J., ins., C.Sc.

Consolidation of muddy ground under the rail joints. Zel dop tech
10 no. 3:85-86. '62.

KRAUS, Josef, inz., C.Sc.; KUBICEK, Bohumil, inz.

Gun sprayed plasters from aerated concrete mortar.
Inz stavby 10 no.4:133-137. Ap '62.

1. Vyzkumný ústav dopravní, Praha (for Kraus).
2. Železníční stavitelství, Praha (for Kubicek).

JUGL, Vilem, inz.; KUBICEK, Bohumil, inz.; KRAUS, Josef, inz., C.Sc.

Experience with machinery used in the Aerocem method. Inz
stavby 10 no.7: Suppl: Mechanizace no.7:77-80 '62.

1. Zeleznicni stavitelstvi, Praha (for Jugl and Kubicek).
2. Vyzkumnny ustav dopravni, Praha (for Kraus).

KRAUS, Josef, inz., C.Sc.

New methods of improving the road slope stability. Siln doprava 11
no.2:6-8 F '63.

1. Vyzkumny ustav dopravní, Praha.

KRAUS, Josef, inz., C.Sc.; KUBICEK, Bohumil, inz.

Aeroconcrete grout in water-construction engineering.
Vodni hosp 13 no.2:72-74 '63.

1. Vyzkumny ustav dopravní, Praha; Záleznici stavitelství,
Praha.

KRAUS, Josef, inz., ScC.; KUBICEK, Bohumil, inz.

Lifting of the settled concrete pavement by injection. Inz
stavby 11 no. 5170-173 My '63.

1. Vyzkumný ústav dopravní, Praha (for Kraus).
2. Železniční stavitelství, Praha (for Kubicek).

KRAUS, Josef, inz., C.Sc.; KUBICEK, Bohumil, inz.

Stabilization of slipping embankments by injection.
Inz stavby 11 no.4:151-155 Ap '63.

1. Vyzkumný ustav dopravní, Praha (for Kraus)
2. Železnicní stavitelství, Praha (for Kubicek)

HUBACEK, Josef, promovany ekonom; KRAUS, Josef, inz.

New trends in the production and use of industrial fertilizers
in the world. Vest ust zemedel 11 no.6:231-237 '64.

1. Institute of Scientific and Technological Information,
Ministry of Agriculture, Forestry and Water Resources
Management, Prague.

HUBACEK, Josef, promovany ekonom; KRAUS, Josef, inz.

Scientific research and consultant activities in the United States
agriculture. Vest ust zemedel 11 no.10:3 of cover - 4 of cover '64.

1. Institute of Scientific and Technological Information, Ministry
of Agriculture, Forestry and Water Resources.

KRAUS, Josef, inz., CSc.

Protection of rock cuttings by concrete mixture coating. Zel dop tech
12 no.1;20-22 '64.

KRAUS, Josef, inz. CSc.; TYC, Petr, doc. inz. CSc.

Construction of drain ducts with porous pipes. Zel dop tech
13 no.2:38-39 '65.

KRAUS, K.

Braking of induction motors. p. 363.

(Elektrotechnicky Obzor. Vol. 46, no. 7, July 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Unclassified.

KRAUS, K.

"The method of inverted transformation."

p. 547 (Elektrotechnicky Obzor) Vol. 46, no. 10, Oct. 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

Z/037/62/000/004/008/008
E197/E335

AUTHOR: Kraus, K. (Ejpovice, near Pilsen)

TITLE: Measurement of the thermal conductivity of ferrites

PERIODICAL: Československý časopis pro fysiku, no. 4, 1962,
382 - 386

TEXT: The author evaluates the thermal conductivity λ by measuring the thermal diffusion a , using the formula :

$$a = \lambda/sc ,$$

in which s is density and c the specific heat. Two equal assemblies, each comprising a known standard and the ferrite under test, are used. The two assemblies are heated to different temperatures, then pressed together to achieve intimate contact and the change in temperature at the boundary between standard and ferrite is measured. By specifying the initial conditions and using the known formulae for the exponential change of temperature with time, the author derives an expression for the temperature of the boundary and thus also the coefficient of thermal diffusion. For the measurement, the author uses a two-thermistor Card 1/2

Measurement of

Z/037/62/000/004/008/008

E197/E335

bridge, in which the difference in the temperature-resistance slope of the thermistor is compensated by an ohmic resistance. The dimensions of the standard (copper) were 60 mm dia., 80 mm long and the length of the ferrite specimen was 5 mm. The temperature difference of the two assemblies prior to test was about 15 °C. In the single experimental example quoted, precisely the same thermal-conductivity value was obtained as is published in the literature. The advantages of the method are: short duration of the test (2 minutes); only small temperature differences are needed; the temperature has to be in one place only. There are 2 figures.

SUBMITTED: February 15, 1962

Card 2/2

KRAUS, K. (Ejpovice u Plzne)

Preparation of colloidal magnetic iron oxide. Cs cas fys 12 no.1:
85-87 '62.

Kraus, K

HUNGARY/Chemical Technology - Fermentation in Industry.

H.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 55457

Author : Kraus, Kanich

Inst :

Title : A New Method for Preparing Fusel Oil during Purification
of Alcohol.

Orig Pub : Elem. ipari, 1955, 9, No 5, 146-148

Abstract : A New method for purification of alcohol is described,
providing the yield of fusel oils in an increased con-
centration (>80%).

Card 1/1

ACCESSION NR: AP4016078

Z/0037/64/000/001/0005/0016

AUTHOR: Kraus, Kamil

TITLE: Analysis of magnetothermal effects

SOURCE: Caskosl. casopis pro fysiku, no. 1, 1964, 5-16

TOPIC TAGS: magnetothermal effects, Stoner-Rhodes theory, Teale-Rowlands theory
energy changes, reversible processes, irreversible processes, Bloch's wall, Si-Fe
single crystals

ABSTRACT: The author evaluates theories used as a basis for the analysis of magnetothermal phenomena. The purpose of the study was to find shortcomings distorting the objective evaluation of experimental results. Theories of Stoner and Rhodes, and Teale and Rowlands are described, and their limits of validity discussed. The shortcomings of both methods is that they apply only to magnetic changes due to reversible processes, but not to changes due to irreversible processes. It would be an advantage to evaluate individual processes from the point of view of energy changes characteristic of each process, in direct connection with the hysteresis loop. A possible approach is to follow changes in magnetothermal phenomena accompanying the movement of Bloch's wall on Si-Fe single crystals in the shape of frames prepared according to Williams; the author is at present

Cord 1/2

ACCESSION NR: AP4016078

engaged in experimental work in this field. Orig. art. has: 1 figure, 63 equations.

ASSOCIATION: SPS Strojnicka, Plzen (Secondary School for Mechanical Engineering)

SUBMITTED: 14Feb63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: PH, GE

NO REF Sov: 000

OTHER: 018

Card 2/2

Z/0037/64/000/002/0100/0104

ACCESSION NR: AP4022282

AUTHOR: Kraus, Kamil

TITLE: Sensitive measurement of small temperature changes

SOURCE: Ceskoslovensky casopis pro fysiku, no. 2, 1964, 100-104

TOPIC TAGS: temperature measurement, thermistor, magnetothermal effect

ABSTRACT: An apparatus for measurement of small temperature changes is described. The usual thermocouples are replaced by a thermistor (0.1 mm in diameter) with a low time constant, connected on a Wheatstone bridge fed by a circuit of 500 cps a-c. The a-c amplifier operates at the same frequency. The apparatus has been used for measurements of temperature changes on the order of 10^{-3} °C with an accuracy of up to 5%. Orig. art. has: 6 figures, 1 table, and 5 formulas.

ASSOCIATION: none

Card 1/2

KRAUS, K.

Sensitive measurement of small temperature changes.
Chekhosl fiz zhurnal 14, no. 7-555-558 '64.

1. Chair of Mathematics, Higher school of Technology,
Plzen.

KRAUS, Karel, inz.

National conference on metal working and metal heat treatment in
Odesa, 1960. But listy 16 no.1:62-63 Ja '61.

KRAUS, Karel, inz.

Heat treatment of construction steel. Hut listy 16 ne. 5:368 My
'61.

KAWECKI, Karol; KRAUS, Karol

Hashimoto's struma lymphomatosa changed to Riedel's fibrous goiter.
Pol. przegl. chir. 34 no. 9:929-933 '62.

1. Z Zakladu Anatomii Patologicznej we Wrocławiu Kierownik: prof.
dr Z. Albert i z Oddziału Chirurgicznego III Szpitala Miejskiego
im. L. Rydygiera we Wrocławiu Ordynator: dr K. Kraus.
(THYROIDIS LYMPHOMATOUS) (GOITER)

KRAUS, L.

KRAUS, L. Defective bricks in construction in the Ostrava region. p. 57

Vol. 34, no. 2, Feb. 1956

STAVIVO

TECHNOLOGY

Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

Kraus, L.
BAUER, J.; KRAUS, L.

Problem of fracture healing in the distal third portion of the humerus.
Rozhl. chir. 36 no.8:540-546 Aug 57.

1. Chirurgicka klinika UK v Kosiciach, prednosta prof. Jan Knazovicky
traumatologicke oddelenie KUNZ Kosice, prednosta Jan Bauer. Orthopedicka
klinika UK v Bratislave, prednosta prof. Jan Cervenansky.
(HUMERUS, fract.
distal third, healing (Cs))

BAUER, J.; KRAUS, L.

Primary suture of injured tendons. Rozhl. chir. 39 no.1:39-43
Ja '60

1. Chirurgicka klinika UK v Kosiciach, prednosta prof. MUDr.
Jan Knazovicky Traumatologicke oddelenie KUNZ - Kosice, prednosta
MUDr. Jan Bauer.
(TENDONS, wds. & inj.)

KRAUS, L.; VEPROVSKA, E.

Use of thin layer chromatography in the analysis of dispensed
suppositories. Cesk. farm. 12 no. 10:515 D'63

1. Statni ustav pro kontrolu leciv, Praha, a Krajska kontrolni
laborator, Ostrava.

*-

KRAUS, L.

Matt (2)

Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Biological Chemistry

Distinguishing between the resin of *Podophyllum peltatum* and *Podophyllum emodi*. L. Kraus (Central Control Lab., Sanitas, Prague). Československý farm. č., 47-8 (1953). On Schleicher-Schüll no. 680 paper spots of NH₄OH soln. of podophyllin, the resin of *Podophyllum peltatum*, show yellow fluorescence in ultraviolet light, while spots of the resin of *P. emodi* are slightly green. D. Hubíková

MF
6-21-54

KRAUS, Lj.

Determination of anthraquinone derivatives in drugs; rhizoma rhei
and cortex fragulae. Cesk. farm. 3 no.5:171-174 My '54.

1. Z ustrednich technicko-kontrolnich laboratori Sanitass, Praha.
(ANTHRAQUINONE, determination,
*in various drugs)

KRAUS
ZADINA, R.; KRAUS, Lj.

Pharmacology of *Vincetoxicum officinale* Moench. Cesk. farm. 3
no.7:235-238 Sept 54.

1. Z Vyskumneho ustavu lecivych rostlin a z Ustrednich technicko-
kontrolnich laboratori Sanitas, N.P., v Praze.
(PLANTS,
Vincetoxicum officinale, pharmacol.)

Kraus, L.J.

H-17

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and
Their Application. Medicinals. Vitamins.
Antibiotics.

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 26182

Author : Kraus L.J.

Inst :

Title : New Modification of Borntraeger's Reaction in Testing
Folia Sennae

Orig Pub : Ceskosl. farmac., 1956, 5, No 7, 410-411

Abstract : In view of the fact that Borntraeger's reaction does not yield satisfactory results in the testing of senna leaves (Alexandria leaves), which is due to insufficient cleavage on hydrolysis of glucoside derivatives of anthraquinone, the following modification of this reaction has been worked out: 0.3 g of comminuted plant raw material are heated for 1 minute with 10 ml 0.5 N KOH together with 1 ml of H₂O₂ solution. The warm solution is filtered

Card 1/2

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and Their Application. Fats and Oils. Waxes. Soap and Detergents. Flotation Agents. H-25

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 17094

Author : Kraus, L.; Vesoly, P.; Zadina, R.

Inst : Not given

Title : Oil from Cytisus Laburnum Seeds

Orig Pub : Ceskosl. farmac., 1957, 6, No 8, 448-449

Abstract : Oil was extracted with petroleum ether from Cytisus laburnum seeds with the yield of 11.8%. The oil is dark yellow in color, of slightly burning taste, it gives an acid reaction to lithium, it has $n^{20}_D = 1.4739$, $d_4^{20} = 0.9140$, 190.7 saponification number, 119.2 iodine number, 0.5 acid number, and 87.0 Gennor number. The unsaponified portion (1.53%) yielded crystalline stearine ($C_{27}H_{44}O \cdot H_2O$) with 115 - 117° melting point, which was tentatively named "cytisosstearine". -- A. Vavilova

Card 1/1

COUNTRY : Czechoslovakia

H-17

CATEGORY :

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826220

ABSTRACT JOUR. : RZhKhim., No.

AUTHOR : Kraus, Lj.

INST. :

TITLE : Determination of Anthraquinone Derivatives in Pharmaceutical Preparations. I. Photometric Determination of Frangulaemodin in Cholagol.

ORIG. PUB. : Ceskosl. farmac., 1959, 8, No 2, 83-84

ABSTRACT : A new method was developed for determination of frangulaemodin in the preparation Cholagol, which is based on Borntraeger's reaction. Analysis is conducted in Fulfrich photometer, with S53 filter, in 5-ml cells. On the basis of the results thus obtained a graph was plotted showing dependence of extinction on concentration of the frangulaemodin. -- From author's summary.

CARD:

CSSR

KRAUS, L.

State Institute for Drug Control (Statni ustav pro kontrolu leciv), Prague
Bratislava, Farmaceuticky Obzor, No 1, 1963, pp 20-25
"Curative Herbs and Possibilities of their Use in Modern Therapy"

(1)

KRAUS, Lj.; NADHERNY, J.

Pharmaco-anatomical study of the leaves of the family Daucaceae.
II. Apioideae --- Scandicinae. Cesk. farm. 13 no. 4: 173-178 My'64

KRAUS, L.; PERENYI, F.

Determination of azulene in the oil of milfoil (*Achillea millefolium*) by thin-layer chromatography. Cesk. farm. L. no.8:423-424 O '65.

1. Statni ustanov pro kontrolu leciv, Praha, Farmaceuticka fakulta Univerzity Komenskeho, Bratislava. Submitted May, 16, 1965.

KRAUS, Lavoslav, sanitetski pukovnik, dr.

On the role and place of health education in military medicine
in the Yugoslavian Army. Vojnosanit. pregl. 19 no.4:272-276
Ap '62.

(MILITARY MEDICINE) (HEALTH EDUCATION)

KRAUS, Lajoslav, Pukovnik dr.

Hygienic cultural and educational activity in the Yugoslav
People's Army. Voj. san. pregl., Beogr. 14 no.1-2:61-64
Jan-Feb 57.

(HYGIENE, educ.
in Yugosl. People's Army (Ser))

KRAUS, Lyubomir

Quantitative determination of cytisine in ampules by means
of paper chromatography. Apt.delo 8 no.2:86-87 Mr.Ap
'59. (MIRA 12:5)

1. Iz Gosudarstvennogo instituta kontrolya lekarstvennykh
preparatov v Prague (Chekhoslovakiya)
(CYTISINE) (PAPER CHROMATOGRAPHY)

KRAUS, Lyubomir (Praga)

Paper chromatography of anthraquinone raw materials. Apt. delo 9
no. 6:64-70 N-D '60. (MIRA 13:12)

1. Gosudarstvennyy kontrol'nyy institut lekarstvennykh preparatov.
(CHROMATOGRAPHIC ANALYSIS) (ANTHRAQUINONE)
(BOTANY, MEDICAL)

ISHCHENKO, Aleksey Vladimirovich; KLIMOV, Boris Grigor'yevich; KODYK, Grigoriy Trofimovich; KOLOTOVA, Irina Savel'yevna; KRAUS, Leonid Andreyevich; ABRAMOV, V.I., otv. red.; SABITOV, A., tekhn. red.

[Inspecting and adjusting hoists] Reviziia i naladka pod'emnykh ustavovok. By A.V.Ishchenko i dr. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 81 p. (MIRA 14:10)
(Mine hoisting)

TERENT'YEV, Boris Petrovich, prepod.; KITAYEV, Valentin Yevgen'yevich, prepod.; GOROVITSKIY, Roman Markovich, prepod.; KRAUS, Lyus'yen Adol'fovich, prepod.; PUTILOVA, Iya Nikolayevna, prepod.; Prinimala uchastiye LYATKOVSKAYA, A.D., inzh.; LYUBSKIY, G.S., otv. red.; VOLODARSKAYA, V.Ye., red.

[Power systems of communication enterprises] Energetika predpriatii sviazi. Moskva, Sviaz', 1965. 614 p. (MIRA 18:9)

1. Moskovskiy elektrotekhnicheskiy institut svyazi (for all except Lyubskiy, Volodarskaya).

VIGAND, A.G., inzh.; KRAUS, L.A., inzh.; ALEKHIN, A.D.

Use of a multiple position relay control of the asynchronous engine for the automation of mine hoists. Ugol' 37 no.5:35-39
My '62. (MIRA 15:6)

1. Giprouglegormash i trest Oktyabr'ugol'.
(Mine hoisting) (Automatic control)

Khush
BELOPOL'SKIY, Isay Il'ich; KRAUS, L.A., red.; LARIONOV, G.Ye., tekhn.red.

[Power supply for radio installations] Elektropitanie radio-
ustroistv. Moskva, Gos.energ.izd-vo, 1957. 310 p. (MIRA 11:1)
(Radio--Apparatus and supplies)

BELOPOL'SKIY, Isay Il'ich; KRAUS, L.A., kand. tekhn.nauk, red.

[Electric power supply of radio systems] Elektropitanie
radionstroistv. Izd.2., perer. Moskva, Energija, 1965.
317 p. (MIRA 18:3)

KRAUS, M.; HAHN, P.

Effect of hypoxia on heart rate in young rats in ontogenesis in high environmental temperature. Cesk. fysiol. 7 no.3:211-212 May 58.

1. Fysiologicky ustav CSAV, Praha.

(ANOXIA, effects,
on heart rate in young rats exposed to heat (Cz))
(HEAT, physiol.
rate, eff. of anoxia in young rats exposed to heat (Cz))
(HEAT, effects,
on heart rate in young rats exposed to anoxia (Cz))

KRAUS, M.; SKODA, J.

Reading on publishing. Pt.10. Chem listy 57 no.9:1004-1008
S '63.

BERANEK, L.; KRAUS, M.; BAZANT, V.

Catalytic dealkylation of alkyl aromatic compounds. Pt.7. Coll
Cz Chem 29 no.1:239-250 Ja'64

1. Institut fur theoretische Grundlagen der chemischen Technik,
Tschechoslovakische Akademie der Wissenschaften, Prag.

KRAUS, M.; SKODA, J.

On publishing. Part 8: Experimental part of a scientific publication. Chem listy 56 no.11:1376-1379 N '62.

KRAUS, M.; SKODA, J.

Scientific publications; discussion. Part 9. Chem listy 57
no.1:93-95 Ja '63.

JEKLER,J.; BOREK,Z.; VANECKOVA,O.; KRAUS,M.

Remote results of the surgical treatment of achalasia. Cas.lek.
cesk. 103 no.13:329-334 27 Mr'64

1. II.chirurgicka klinika fakulty vseobecneho lekarstvi KU v
Praze; prednosta: prof.dr. J.Ihotka.

*

BLAHA, K.; GUT, J.; KORYTA, J.; KRAUS, M.

Czechoslovak chemistry in the years 1945-1965. Chem listy
59 no.5:521-532 My '65.

Kravtsova, M.; Kostylev, D.

Determination of small amounts of aldosterone and corticosterone in the incubation medium of the adrenal gland of rats. Physiol. Rishem. 13 no.6;470-461 1946.

U. Institute of Physiology, Ukrainian Academy of Sciences,
Kiev, U.S.S.R.

KRAICE, Mieczyslaw; TUCANOWSKI, Witold

Changes of the bio-electric activity in individual fibers of
a dying heart. Acta physiol. Pol. 15 no. 6:715-722 N-D 164

1. Z Zakladu Fizjologii Szackiej Akademii Medycznej w Zielonej
(kierownik: doc. dr. M. Krause).

DLOUHA, H.; KRAUS,M.; KRECEK,J.; PLISKA,V.

Sensitivity of rats to vasopressin in the weaning period.
Physiol. Bohemoslov. 14 no.3:217-224 '65.

1. Institute of Physiology and Institute of Organic Chemistry
and Biochemistry, Czechoslovak Academy of Sciences, Prague.

KRAUSE, Mieczyslaw, doc. dr.; VORRODT, Andrzej, doc. dr.; KANWISZER, Henryka; TARMAS, Jozef.

Attempt of histochemical localization of catecholamines in the metencephalon. Acta physiol. Pol. 16 no.1:1-7 Ja-F'65.

1. Zaklad Fizjologii (Kierownik: doc. dr. M. Krause); Zaklad Histologii i Embriologii Ogolnej (Kierownik: doc. dr. A. Vorbrodt) oraz Zaklad Anatomii Prawidlowej Slaskiej Akademii Medycznej w Zabrze-Rokitnicy (Kierownik: prof. dr. St. Kohmann).

KRAUS, Mihail, Ingr., cercetator stiintific

A valuable fodder plant, the hybrid sorghum. St si Teh Buc 17
no. 3:38-39 Mr '65.

1. I.C.C.P.T., Fundulea.

KRAVS, MILOS

3

✓ Conjugated dienes. Milos Kraus and Vladimir Balint
Czech. 85,334, Dec. 1, 1960. A mixt. of steam and cyclo-
hexyl acetate (I) heated in a quartz tube at 220-30° in such a
ratio that the partial pressure of II is 12 mm. and the period
of contact 0.13 sec. gave a 81.0% conversion and a 75.5%
yield of $(CH:CH)_n$. L. I. Urbanek

2
M. A. YOUTZ
2 copies

PM

Kopie, 17

5

2644. Sample collector for small volumes of gas.

M. Kraus (Ustav org. chem., Čsl. akad. věd, Prague)

Čas. Čes. Akad. věd, 1964, 40 (B), 929.

A sample collector for volumes of gas up to 500 ml.
Based on the principle of the Manette bottle is
described and illustrated. The device can also be
used as a gas holder.

RM

Czechoslovakia/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 797

Author: Kraus, M., and Bazhant, V.

Institution: None

Title: Dienes by the Pyrolysis of Cyclic Compounds. II. Preparation of Butadiene by the Pyrolysis of Cyclohexanol

Original

Periodical: Sb. chekhosl. khim. rabot, 1956, Vol 21, No 2, 363-367 (German summary)

Abstract: See Referat Zhur - Khimiya, 1956, 46830

Card 1/1

KRAUS /M/ CHEMICKE LISTY
Chemical Journal (Czechoslovakia)

Vol 50 (80), No. 4, April, 1956.

Pyrolytic Preparation of Dienes from Cyclic Compounds.III.:
Kinetics of Fission of Cyclohexene and Cyclohexyl Acetate.

The kinetics of pyrolysis of cyclohexene to butadiene and ethylene between 938 - 1018° C and the kinetics of pyrolysis of cyclohexyl acetate to cyclohexene and acetic acid between 623 - 773° C were investigated. Both reactions are homogeneous end of the first order; velocity constants were calculated.

By M.Kraus, R.Vavruska & V.Bazant.....

7
Enriching mixtures of *m*- and *p*-cresol with *m*-cresol by
catalytic isomerization. Vladimír Halant, Milos Kraus
and Karel Kochloch. Czech. 25 060, Aug. 18, 1957. The
catalyst is prep'd. by soaking 70 g. activated γ -alumina
(diam. of grains 1.0-1.8 mm.) with $\text{Al}(\text{BF}_4)_2$ soln. and drying
at 120°. Feeding 80 g. cresol fraction contg. 37.6% *m*-
cresol to a heater at a rate 0.11 mole/min./l. of catalyst;
space together with H (0.12 mole/min.) and passing the
warmed mixt. at a rate 13.8 mole/hr. through a reactor tube,
contg. 80 ml. catalyst heated to 480° gives 70 g. condensate
which yields on distn.: 13.3 g., b. 170-81° (phenol); 10.8
g., b. 188-98° (*e*-cresol); 34.7 g., b. 108-203° (*m*-cresol);
11.7 g., b. 203-20° (xylene), and 8.0 g. distn. residue.
L. J. Urbánek

5
2-May
JJ

KRAUS, M. & VAVRUSKA, M. : BAZANT, V.

"Detection of dienes by means of the pyrolysis of cyclic compounds.
III Kinetics of the decomposition of cyclohexene and cyclohexylacetate.
In German."

p. 484 (COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS. SBORNIK
CHECKSHOSOLVATSKIKH KHMICHESKIKH RABOT. -- Praha, Czechoslovakia.)
Vol. 22, No. 2, April 1957

SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5 May 1958

KRAUS, M.

"V. Ettel's Organicka technologia (Organic Technology); a book review.
In German."

p. 1074 (Collection of Czechoslovak Chemical Communications. Sbornik
Chekhoslovatskikh Khimicheskikh Rabot.) Vol. 22, no. 3, June 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

CZECHOSLOVAKIA/Organic Chemistry. Synthetic OrganicChemistry. G

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4641.

Author : Kochloefl, K., Kraus, M., and Bazant, V.

Inst :

Title : Isomerization and Disproportionation of Cresols.

Orig Pub: Chem Listy, 51, No 12, 2295-2303 (1957) (in Czech).

Abstract: The isomerization and the disproportionation of cresols in the liquid phase and in the gas phase on acid catalysts have been investigated. The starting material used consisted of the m- and p-cresol fractions obtained during the semicoking of brown coal after removal of basic and sulfur-containing compounds. As a result of isomerization the m-cresol content was found to increase from an initial value of 35% to 60%. The results obtained from liquid phase isomerizations

Card : 1/3

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G

Abs Jour: Ref Zhur-Khin., No 2, 1959, 4641.

carried out with AlCl_3 as a catalyst at 140° are similar to those described earlier (G. Daddeley, J Chem Soc, 1943, 527; H. P. Meissner and F. E. French, J Amer Chem Soc, 74, 1000, 1952)). Gas phase experiments have been carried out using a variety of oxide catalysts and catalysts containing fluorine; among the latter best results were obtained with $\text{Al}(\text{BF}_4)_3$ on $\gamma\text{-Al}_2\text{O}_3$, calculated at 20%. In the isomerization experiments the cresols were diluted with hydrogen in the ratio 1 : 1 in order to reduce carbon deposition on the catalysts. The effect of temperature was investigated in the range 380 - 500° and the space velocity was varied between 15-and 75 mols/hr per liter catalyst. Using pure components (o-, n-, and p-cresol as well as various

Card : 2/3

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4641.

xylols) the reactivity of the various isomers was investigated. The effect of various catalyst poisoning agents has also been investigated. Nitrogen-containing substances (pyridine and quinoline) in small amounts have a negative effect on the isomerization process and in large amounts also inhibit the disproportionation process. Sulfur compounds, on the other hand, inhibit only isomerization reactions and have no effect on the disproportionation reaction. Apparently the two reactions take place at different active centers. Values are given for the equilibrium constants for the isomerization and for the disproportionation reactions of all three cresols. The heats of reactions are also given. -- K. Setinek.

Card : 3/3

15

KRAUS, MILOŠ

Distr: 4E3d

✓ Obtaining phenol and cresols from xylenol fractions.
Miloš Kraus, Karel Kochloefl, and Vladimír Baláň
Czech. 89,683, Apr. 15, 1959. Xylenol fractions contg.
approx. 20% ethylphenols evapd. in a stream of H (100
ml. H/g.), the mixt. passed at 500° over catalyst contg.
20% Al(BF)₃ on γ -alumina at 1 kg. fraction/hr./l. catalytic
space gives a liquid product contg. H₂O 2.7, mixt. of C₆H₆
and PhMe 2.0, PhOH 25.4, *o*-cresol 0.3, mixt. of *m*- and *p*-
cresol 26.5, mixt. of xylenols 23.8, and distn. residue 14.3%.

L. J. Urbánek

4
1-29(68)

JK

COUNTRY	:	CZECHOSLOVAKIA
CATEGORY	:	Organic Chemistry. Synthetic Organic Chemistry
ABS. JOUR.	:	RZKhim., No. 1 1960, No. 1160
AUTHOR	:	Kochloefl, E.; <u>Kraus, M.</u> ; Bazant, V.
INST.	:	-
TITLE	:	Isomerization and Disproportionation of Cresols
ORIG. PUB.	:	Collect. Czechosl. Chem. Commun., 1959, 24, No 3, 958-967
ABSTRACT	:	No abstract See RZKhim., No 2, 1959, No 4641.

CARD:

1/1

✓Acidity and activity of fluoroborate catalysts. M. Křnus,
K. Kochloefl, R. Komers, and V. Balant (Čsl. akad. ved,
Prague). Collection Czechoslov. Chem. Commun. 24, 1188-
93 (1959).—The study of the isomerization of *o*- to *m*- and
p-xylene, of *p*-cresol, and of the disproportionation of
xylene, cumene, and *o*-iso-PrC₆H₄OH on catalysts prep'd. by
impregnating γ -alumina with Al(BF₄)₃ (I) (C.A. 52, 125284)
indicates that the catalyst activity is proportional to the
abundance of acid centers and that catalysis is caused by a
new compd. formed from alumina and I which contains
approx. 20% I.

M. Hudlický

KRAUZ, Milos [Kraus, M.]; Kokhlefl', Karel [Kochloefl, K.];
BAZHANT, V. [Bazant, V.]

Fluoborate catalyst for the isomerization of cresols. Probl. kin. i
kat. 10:379-384 '60. (MIRA 14:5)

1. Khimicheskiy institut Chekhoslovatskoy Akademii nauk, Praga.
(Cresol) (Aluminum fluoborate)

BERANEK, L.; KRAUS, M.; KOCHLOEFL, K.; BAZANT, V.

Mechanism for dehydrating secondary alcohols by means of aluminum oxide. I. Relation between the dehydration of alcohols and the isomerization of olefins. Coll Cz chem 25 no.10:2513-2521 0 '60.
(LEAI 10:9)

1. Institut für theoretische Grundlagen der chemischen Technik,
Tschechoslowakische Akademie der Wissenschaften, Prag.

JOKLIK, J.; KRAUS, M.; BAZANT, V.

Silicon organic compounds. XXIII. Kinetics of the reaction of methyl chloride with chemically pure silicon in a catalysis with copper.
Coll Cz chem 26 no.2:427-435 F '61. (EEAI 10:9)

1. Institut fur theoretische Grundlagen der chemischen Technik,
Tschechoslovakische Akademie der Wissenschaften, Prag.

(Organic compounds) (Chloromethane) : (Silicon)
(Copper) (Catalysis)

KADLEC, M.; KRAUS, M.; BAZANT, V.

Silicon organic compounds. XXIV. Kinetics of a direct synthesis of methyl chlorosilane under increased pressure. Coll Cz chem 26 no.2: 436-441 F '61. (EEAI 10:9)

1. Institut fur theoretische Grundlagen der chemischen Technik,
Tschechoslowakische Akademie der Wissenschaften, Prag.

(Organic compounds) (Silicon) (Chloromethylsilane)

SCHNEIDER, P.; KRAUS, M.; BAZANT, V.

Catalytic dealkylation of alkylaromatic compounds. III. Reaction of kinetics of ethylphenols over an acidic catalyst. Coll Cz chem 26 no.6:1636-1645 Je '61.

1. Institute for Chemical Process Fundamentals, Czechoslovak Academy of Science, Prague.

(Alkyl group) (Ethylphenol)

AYZIKOVICH, M.A.; BORISOVA, L.A.; ZUBKOV, B.I.; KRAUS, M.

Order of the addition of ethyl alcohol to a symmetric methyl-
phenylethylene oxide. Trudy LTI no.59:22-33 '61.
(MIRA 17:9)

41743
S/081/62/000/019/018/053
B144/B180

5.3700

AUTHORS: Bazant, V., Kraus, M.

TITLE: Organosilicon compounds. XVIII. Direct synthesis of ethyl chlorosilanes

PERIODICAL: Referativnyj zhurnal. Khimiya, no. 19, 1962, 225, abstract
19Zb245 (Collect. Czechoslov. Chem. Commun., v. 26, no. 8, 1961,
2028 - 2034 [Ger.; summary in Rus.])

TEXT: The kinetics of C_2H_5Cl interaction with Si was studied in the presence of a copper catalyst (ratio by weight Si:Cu = 9:1) in a flow-through reactor at $200 - 320^{\circ}C$. All the ethyl chlorosilanes are formed simultaneously. The splitting of C_2H_5Cl with formation of C_2H_4 and HCl is not a secondary reaction. Hence, the formation of $C_2H_5SiHCl_2$ must be attributed to secondary reactions taking place at the copper surface. The effect of the temperature and partial C_2H_5Cl pressure on the course of the reaction was studied. The experimental setup and procedure are described. Report XVII Card 1/2

Organosilicon compounds. ...

S/081/62/000/019/018/053
B144/B150

see RZhKhim, 1962, 15Zh236. [Abstracter's note: Complete translation.]

Card 2/2

S/081/62/000/024/039/073
B101/B186

AUTHORS: Ayzikovich, M. A., Borisova, L. A., Zubkov, B. I., Kraus, M.

TITLE: Ethyl alcohol addition to the oxide of asymmetric methyl-phenyl ethylene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1962, 316, abstract 24Zh161 (Tr. Leningr. tekhnol. in-ta, im. Lensoveta, no. 59, 1961, 22-32)

TEXT: This is a study on the addition of C_2H_5OH to the asymmetric methyl-phenyl ethylene oxide (I) in its dependence on the catalyst used in the presence of C_2H_5ONa and the $(C_2H_5)_2O \cdot BF_3$ complex. Dehydration of dimethyl-phenyl carbinol yielded $C_6H_5C(CH_3)=CH_2$ (II), b.p. $164-166^{\circ}C/760$ mm Hg. A solution of monochloro urea converts II into $C_6H_5C(CH_3)(OH)CH_2Cl$ (III), b.p. $99-102^{\circ}C/9$ mm Hg. Stirring of III with 20% NaOH at room temperature yields I, b.p. $84-86^{\circ}C/16$ mm Hg. Heating of 8 g I and 60 ml C_2H_5OH containing 1 g metallic Na in a sealed tube ($100^{\circ}C$, 24 hrs), distillation

Card 1/3

Ethyl alcohol addition to the ...

S/081/62/000/024/039/073
B101/B186

of the alcohol, extraction with ether, and fractionation in vacuo yields 44.2% (with respect to I) $C_6H_5C(CH_3)(OH)CH_2OC_2H_5$. (IV), b.p.

114-115°C/10 mm Hg, n_D^{20} 1.5062, d_4^{20} 1.0172. The structure of IV was confirmed by the following synthesis: a three-fold excess of CH_3MgI was caused to act on $C_2H_5OCH_2COOC_6H_5$ (V), b.p. 94-96°C/2-3 mm Hg, n_D^{20} 1.5302, 61% of which had been obtained by reaction of C_6H_5MgBr with $C_2H_5OCH_2CN$, b.p. 133-134°C. The latter was obtained with a 46.8% yield from P_2O_5 , reacting with $C_2H_5OCH_2CONH_2$, m.p. 81-83°C, 72% of which had been synthesized from a 28% solution of NH_4OH and $C_2H_5OCH_2COOC_2H_5$. The latter was obtained from the corresponding acid synthesized from C_2H_5ONa and $ClCH_2COOH$. Reaction of C_2H_5ONa with 5.3 g I in 100 ml absolute C_2H_5OH in the presence of 0.5-1 ml $(C_2H_5)_2O \cdot BF_3$ yielded 36% (calculated with respect to I) $C_6H_5(OCH_3)(OC_2H_5)CH_2OH$ (VI), b.p. 120-121°C mm Hg, n_D^{20} 1.5157,

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Ethyl alcohol addition to the ...

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d_4^{20} 1.0289. The resulting data show that I reacts with C_2H_5OH in the presence of C_2H_5ONa yielding mainly IV (according to V. V. Markovnikov's rule), whereas in the presence of boron fluoride, mainly VI is obtained (against this rule). [Abstracter's note: Complete translation.]

Card 3/3

KRAUS, Milos; KOCHLOEFL, Karel; SETINEK, Karel; HERANEK, Ludvik;
HOUDA, Miloslav; BAZANT, Vladimir

The course of potassium phthalate rearrangement to potassium
terephthalate. Chem prum 12 no.10:529-534 0 '62.

1. Ustav teoretickych zakladu chemicke techniky, Ceskoslovenska
akademie ved, Praha.

KRAUS, Milos; BERANEK, Ludvik; KOCHLOEFL, Karel; BAZANT, Vladimir

Vapor tension of some benzenecarboxylic acids and their derivatives.
Chem prum 12 no.12:649-652 D '62.

1. Ustav teoretickych zakladu chemicke techniky, Ceskoslovenska
akademie ved, Praha.

- 228
- Prague Collection of Czechoslovak Chemical Communications, Vol. 27,
No. 3, April 1952 (continued)
18. "The Obtaining of Sodium Permane with Electrochemical Methods,"
J. ŠAFER, České Technologické Institut, Bratislava; pp 916-919.
 19. "The Theory of the Boundary Layer of a Finite Absorber. Crystal,"
K. LIND, Institute of Physical Chemistry at the Czechoslovak Academy of Sciences, Prague; pp 920-927.
 20. "A Contribution to the Problem of the Properties of Adsorption on a
Semiconductor," K. LIND, Institute of Physical Chemistry at the
Czechoslovak Academy of Sciences; pp 928-930.
 21. "The Fluctability of Organoids. Part II. A Contribution to the Theory
of the Fluctuation of Organoids in Electrolytic Solutions," J. ŠAFER
and I. DIBLÍK, Institute of Geochimistry and Mineralogical Research
at the Czechoslovak Academy of Sciences, Prague; pp 931-937.
 22. "The Sorption of Radioisotopes on Sediments. Part VI. The Particle
Hydroxide - Structure Solution System, and the General Rules of
Sorption by Particulate Hydroxides," Z. KALÁŘEK, Nuclear Research Institute
of the Czechoslovak Academy of Sciences, Rež, Brno; pp 938-950.
 23. "The Sorption of Radioisotopes on Sediments. Part VII. Description of
Particles by Magnetic Resonance," Z. KALÁŘEK, Nuclear Research
Institute of the Czechoslovak Academy of Sciences, Rež, Brno; pp
950-959.
 24. "Thioglycer Compounds of Ruthenium with Pyridine and Its Methyl
Ester," Part III. Terachloro Ruthenium and Terachloro Ruthenium Com-
pounds," J. ŠAFER, Research Institute for Macromolecular Chemistry,
Brno; pp 960-966.
 25. "Automatic Paper Electrophoresis," J. EISEN, M. PŘEHÝLKA and J.
ŠAFER, Development Workshop and Institute for Theoretical Basis of Chemical
and Biochemical Processes, Czechoslovak Academy of Sciences, Prague; pp
967-973 (English article).
 26. "Organ-Silicon Compounds. Part XIII. The Synthesis of the Direct
Synthesis of Silicon Methyldichlorides," J. ŠAFER, M. PŘEHÝLKA and
V. ŠAFER, Institute for The Theoretical Basis of Chemical and Biochemical
Processes, Czechoslovak Academy of Sciences, Prague; pp 974-978.
 27. "On the Properties of Soluble Catalysts. Part XIV. The Hydration
of Acids," S. LAMKA and O. VÍTĚZŠEK, Institute of the Chemistry of Synthetic
Polymers and Products at the Advanced School of Chemistry, La Přešov.
- 3/6 —
- (a) 'S' H A Y

8/081/63/000/004/013/051
B166/B186

AUTHORS: Joklik, J., Kraus, M., Bažant, V.

TITLE: Silicones. XXIX. Kinetics of the direct synthesis of methylbromosilane

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 212, abstract 4Zh27 (Collect. Czechoslov. Commans, v. 27, no. 4, 1962, 974-978 [Ger.; summary in Russ.])

TEXT: The reaction rate is studied of CH_3Br with pure Si, catalyzed with Cu, in a static installation at 100 - 1,000 mm Hg and 240 - 280°C. The results are correlated by means of the relation derived earlier for CH_3Cl . It was found that the reaction of CH_3I with Si, using a Cu or Ag catalyst, at 280-350° gives tetraiodosilane instead of methylbromosilane. Apparently the methylbromosilane which is formed decomposes and the decomposition products block the active surface of the contact mass; however, it is also possible that the CH_3I decomposes. The reactions of Cu and Ag halides with Si were also studied. The author considers that the reaction of alkyl

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Silicones. XXIX. Kinetics of the...

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halides with Si takes place during adsorption associated with dissociation, in which case the alkyl is adsorbed on the copper and the halide on the Si. Bromine atoms lower the electron density of Si less than chlorine atoms, which to a great extent promotes substitution of the electrophilic CH₃ group at the Si. This process agrees with the results of kinetic measurements. For communication XXVIII see RZhKhim, 1962, no. 19, 19Zh245. [Abstracter's note: Complete translation.]

Card 2/2

KOCHLOEFFL, K.; KRAUS, M.; CHOU CHIN-SHEN; BERANEK, L.; BAZANT, V.

On the mechanism of dehydration of secondary alcohols over alumina catalyst. Part 2: Effect of structure on rate. Coll Cz Chem 27 no.5:1199-1209 My '62.

1. Institute of Chemical Process Fundamentals, Czechoslovak Academy of Sciences, Prague. 2. On the leave of absence from the Institute of Applied Chemistry, Chang-chun, China (for Chou Chin-Shen).

(2)

- Prague, Comittee Library, Vol. 56, No. 4, April 1952
1. "The Chemistry of Condensed-Organic Compounds," K. Kostylev [Editor], of the Joint Soviet-Polish Scientific Seminars (original version not present) In Institute of Technology, Warsaw, Poland, 1951, Summary of the A. Zee-Bruno, President address; the CISS (Central Institute of Scientific Research) is also present.
 2. "Induced Reactions in Analytical Chemistry," by Z. R., pp. 369-371.
 3. "Application of Organic Reagents in Analytical Determinations of Certain Rare Elements," P. Toma [Editorial note given]; pp. 372-375.
 4. "Determination of the Permeability of Polys for Sulphur Dioxide," Josef Hlavcik, and Ladislav Smetana, of the Prague Institute (Odeberg Works), Prague; pp. 375-382.
 5. "Measurement of the Attrition of Ceramic Pottery Articles," Petr Kral, and Jan Kocman, CAV Vyskov [Editorial note given]; pp. 382-389.
 6. "Statistical Paper for Testing Small Samples of Polluted Liquids," Jiri Stamic, CAV Polom [Editorial note given]; pp. 390-391.
 7. "Table for the Four-Point Method of Two-Centimeter Cylindrical Specimens," J. L. Kral, and J. Novak, Institute of Chemical Engineering, Prague, pp. 391-393.
 8. Erratum; pp. 394-395.
 9. Book review; pp. 401-413.
 10. "Labour Publishing, Part II, Forms of Publications," J. Merta and M. Kubin [Editorial note given]; pp. 414-417.
 11. "Documents on the Teaching of Biochemistry in the Natural Sciences Faculties," L. Kral [Editorial note given]; pp. 417-420.
 12. "The 1951 Kral Prize for Chemistry," J. Merta [Editorial note given]; p. 421.
 13. Report on the 26 November 1951 Session of the Central Committee of the Czechoslovak Chemical Society within the CEN, Prague.

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KRADIS, M.

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- France, Chemical List, Vol. 56, No. 5, May 52 (continued)
12. Book reviews; pp 571-583.
 13. "About Publishers, Part III. Titles and Special Publications," J. SPAIN and M. FRANCE [Translations not given] p 555-573.
 14. "Professor Pauli, STRUCTURE, IN SUMMARY," T. CHENGCHUO [Article not given] pp 574-581.
 15. "Colloquies on Research in Athletics," Z. KHALA [Article not given] pp 582-583.
 16. "Free Electrophoresis - Its Theory and Applications to the Study of Macromolecular Substances," Jan GOTT, Institute of Biophysics of Blood Fractionation [Ussr] translated & revised, Preprint pp 584-615.
 17. "List of Chemistry Dissertations," Translated; p 619.
 18. "Review of Foreign Journals and Books," Translated; p 620-624.

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CSO: 2000-3

— 2/2 —

W. KRAY

KRAUS, Milos; SETINEK, Karel; JOST, Frantisek; BAZANT, Vladimir

Some properties of catalysts for rearrangement of potassium phthalate into potassium terephthalate. Chem prum 13 no.2:67-70 F '63.

1. Ustav teoretickych zakladu chemicke techniky,
Ceskoslovenska akademie ved, Praha.

CZECHOSLOVAKIA

KRAUS, M; BAZANT, V.

Institute of Chemical Process Fundamentals, Czechoslovak
Academy of Sciences, Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications,
No 7, 1963, pp 1877-1884

"Catalytic Dealkylation of Alkylaromatic Compounds. VI.
Reactions of Dialkylphenols Over an Acidic Catalyst."